

What is claimed is:

1. A method of microwave-assisted protein array fabrication, comprising the steps of:  
printing the proteins on a slide of aldehyde surface to produce a protein array,  
immersing the protein array in PBSM (skim milk in PBS buffer, w/v 2%) for the blocking reaction,  
washing with PBST (Tween 20 in PBS buffer, w/w 0.025%),  
rinsing with PBS buffer, and dry with centrifugation and proceed to the detection procedure or preserve by refrigeration;  
which is characterized in that the printed array is immobilized by microwave irradiation, and accelerates the blocking reaction by microwave irradiation.
2. The method of claim 1, wherein the microwave intensity is 2.00 to 3.00 GHz.
3. The method of claim 1, wherein the immobilization time is 30 to 90 seconds.
4. The method of claim 1, wherein the time to accelerates the blocking reaction is 1 to 5 minutes.
5. The method of claim 1 being used in aldehyde surface slides, poly-L-lysine coated slides, epoxy coated slides, and FAST slides (SS, nitrocellulose).
6. The method of claim 1, wherein the proteins comprises antibody, antigen and substrates.
7. A full automatic protein array system, comprising:  
a computer control device, for setting the detection procedure, analyzing the scanning results and printing the report of the full automatic protein array system;

an encoding device, for providing bar codes on the slides by the setting of computer control device as for the management of detection results;

a refrigerator, for preserving the proteins such as antigen or antibody by the setting of computer control device;

a robotic arm, the printing procedure is set by the computer control device for getting the protein sample in the refrigerator and printing onto the encoding slides;

a microwave device, the microwave irradiation intensity and time is set by the computer control device for immobilizing the proteins on the slides and processing the blocking reaction;

a micro-injection device, the detection procedure is set by the computer control device for processing the washing, immuno-staining of antigen to antibody; and

a chip detection device, for scanning the result of the immuno-staining on the slides, and transfer the detection signal to the computer control device.